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<p>(21) International Application Number: PCT/NL99/00695</p> <p>(22) International Filing Date: 12 November 1999 (12.11.99)</p> <p>(30) Priority Data: 1010539 12 November 1998 (12.11.98) NL</p> <p>(71)(72) Applicant and Inventor: SPIERINGS, Petrus, Tarasius, Josephus [NL/NL]; Madoerastraat 24, NL-6524 LH Nijmegen (NL).</p> <p>(74) Agent: VERHEES, Godefridus, Josephus, Maria; Brabants Octroobureau, De Pinckart 54, NL-5674 CC Nuenen (NL).</p>		<p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b>  <i>With international search report. In English translation (filed in Dutch).</i></p>

(54) Title: BONE PLUG

## (57) Abstract

A bone plug (61), for blocking of a canal in a bone, has a solid body which by axial compression expands in the radial direction. The height of the body is at most 6 times the average wall thickness of the body. The body (65) is preferably made out of an elastomeric material. For keeping the body (65) axially locked the bone plug comprises a first locking element (67) which is formed by a disc (69) with attached to it a stem (71) provided with saw tooth shaped protrusions (73) which protrudes through an axial opening in the body (65) and a second locking element (75) which is formed by an interrupted ring (77) and an annular plate (79), which are positioned around the stem (71). The ring (77) locks behind one of the protrusions (73) and the annular plate (79) is positioned between the interrupted ring (77) and the body (65). Fixating of the bone plug (61) in the canal is carried out by pushing the interrupted ring (77) along the stem (71) until it locks behind one of the protrusions (73), whereby the body (65) is compressed between the plate (79) and the disc (69) and expands in radial direction and gets fixed in the bony canal.

